

WHAT IS CLAIMED IS:

1. A recording apparatus for recording streaming data on an information recording medium, the recording apparatus comprising:

detecting means for detecting a boundary between data sets that successively constitute the streaming data;

accumulating means for accumulating the streaming data;
and

recording means for recording the streaming data accumulated in the accumulating means in a unit recording area of the information recording medium when the amount of the streaming data accumulated in the accumulating means has reached a capacity of the unit recording area of the information recording medium, and, when the boundary of the data sets is detected by the detecting means, regardless of the amount of the streaming data accumulated in the accumulating means, adding padding data subsequently to the streaming data accumulated in the accumulating means until the total amount of data reaches the capacity of the unit recording area of the information recording medium, and recording resulting data in the unit recording area of the information recording medium.

2. A recording apparatus according to Claim 1, wherein

the streaming data is an MPEG stream and the data sets are groups of pictures.

3. A recording apparatus according to Claim 1, wherein the unit recording area of the information recording medium is a cluster.

4. A recording method for a recording apparatus for recording streaming data on an information recording medium, the recording method comprising:

a detecting step of detecting a boundary between data sets that successively constitute the streaming data;

an accumulating step of accumulating the streaming data; and

a recording step of recording the streaming data accumulated in the accumulating step in a unit recording area of the information recording medium when the amount of the streaming data accumulated in the accumulating step has reached a capacity of the unit recording area of the information recording medium, and, when the boundary of the data sets is detected in the detecting step, regardless of the amount of the streaming data accumulated in the accumulating step, adding padding data subsequently to the streaming data accumulated in the accumulating step until the total amount of data reaches the capacity of the unit

recording area of the information recording medium, and recording resulting data in the unit recording area of the information recording medium.

5. A recording medium having recorded thereon a computer-readable program for a recording apparatus for recording streaming data on an information recording medium, the program comprising:

- a detecting step of detecting a boundary between data sets that successively constitute the streaming data;

- an accumulating step of accumulating the streaming data; and

- a recording step of recording the streaming data accumulated in the accumulating step in a unit recording area of the information recording medium when the amount of the streaming data accumulated in the accumulating step has reached a capacity of the unit recording area of the information recording medium, and, when the boundary of the data sets is detected in the detecting step, regardless of the amount of the streaming data accumulated in the accumulating step, adding padding data subsequently to the streaming data accumulated in the accumulating step until the total amount of data reaches the capacity of the unit recording area of the information recording medium, and recording resulting data in the unit recording area of the

information recording medium.

6. A program for allowing a computer that controls a recording apparatus for recording streaming data on an information recording medium to execute processing comprising:

a detecting step of detecting a boundary between data sets that successively constitute the streaming data;

an accumulating step of accumulating the streaming data; and

a recording step of recording the streaming data accumulated in the accumulating step in a unit recording area of the information recording medium when the amount of the streaming data accumulated in the accumulating step has reached a capacity of the unit recording area of the information recording medium, and, when the boundary of the data sets is detected in the detecting step, regardless of the amount of the streaming data accumulated in the accumulating step, adding padding data subsequently to the streaming data accumulated in the accumulating step until the total amount of data reaches the capacity of the unit recording area of the information recording medium, and recording resulting data in the unit recording area of the information recording medium.

7. A recording apparatus for recording streaming data on an information recording medium, the recording medium comprising:

generating means for generating the streaming data by encoding an information signal based on a predetermined encoding scheme so that the data amount of data sets that successively constitute the streaming data will be an integer multiple of a capacity of a unit recording area of the information recording medium; and

recording means for recording the streaming data generated by the generating means on the information recording medium.

8. A recording apparatus according to Claim 7, wherein the information signal is a video signal, the streaming data is an MPEG stream, and the data sets are groups of pictures.

9. A recording apparatus according to Claim 7, wherein the unit recording area of the information recording medium is a cluster.

10. A recording method for a recording apparatus for recording streaming data on an information recording medium, the recording method comprising:

a generating step of generating the streaming data by

encoding an information signal based on a predetermined encoding scheme so that the data amount of data sets that successively constitute the streaming data will be an integer multiple of a capacity of a unit recording area of the information recording medium; and

a recording step of recording the streaming data generated in the generating step on the information recording medium.

11. A recording medium having recorded thereon a computer-readable program for a recording apparatus for recording streaming data on an information recording medium, the program comprising:

a generating step of generating the streaming data by encoding an information signal based on a predetermined encoding scheme so that the data amount of data sets that successively constitute the streaming data will be an integer multiple of a capacity of a unit recording area of the information recording medium; and

a recording step of recording the streaming data generated in the generating step on the information recording medium.

12. A program for allowing a computer that controls a recording apparatus for recording streaming data on an

information recording medium to execute processing comprising:

a generating step of generating the streaming data by encoding an information signal based on a predetermined encoding scheme so that the data amount of data sets that successively constitute the streaming data will be an integer multiple of a capacity of a unit recording area of the information recording medium; and

a recording step of recording the streaming data generated in the generating step on the information recording medium.